Application No.: 09/496,516 SAR-12165A
Amendment dated: July 9, 2003
Reply to Office Action of: April 9, 2003

Amendments to the Specification:

Please replace the paragraph beginning at page 11, line 12, with the following amended paragraph:

The RF link between the tag system 120B and the interrogator 300B may be implemented using either active or "semi-active" transmission technology. In active transmission systems, the tag system ~~1208~~ 120B uses a battery 170 (shown in Figure 2) to power the entire tag system 120B. In a semi-active transmission system, the tag system 120B uses battery power for the tag system 120B except for the transmitter 210. Message packets 400 may be transmitted between the tag system 120B and the interrogator 300B via passive backscatter where a constant wave is transmitted from the interrogator 300B, passively modulated, and reflected back from the tag system 120B to the interrogator 300B as is known.

Please replace the paragraph beginning at page 18, line 13, with the following amended paragraph

At time T2, when the count value ~~COUNT1~~ COUNT2 is greater than or equal the maximum value MAX2, the signal FRESH transitions from a low to a high state. The transition from the low to high state is used to synchronize the clock to the Manchester encoded data. The signal produced by the counter 512 is provided as a data signal SAMPLE to the decoder 515. The data signal SAMPLE is either high or low. Thus, at time T1, the data signal SAMPLE is low. At time T2, the data signal SAMPLE is high. The rising edge of the data signal FRESH indicates that a valid data sample is provided in data signal SAMPLE. The counter 512 is set to, for example, zero (0) when the data signal INT_OUT transitions from a high to low state.

Received from < 610 407 0701 > at 7/10/03 11:55:02 AM [Eastern Daylight Time]